Abstract

An information processing apparatus of the present invention includes first and second computer elements which execute the same instructions substantially simultaneously in substantial synchronism, and which have first and second memory elements, respectively. The information processing apparatus has a copy element which copies a part of the data stored in the second memory element to the first memory element and a third memory element which stores information to designate which part of the data stored in the second memory element is copied by the copy element when a monitor element finds that the first computer element is out of the synchronism. Each of the first and second computer elements further has a processor and a bus connected to the processor, in another information processing apparatus of the present invention, and the monitor element is further connected to the bus.